

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P827048

Luminaire Tested: **OHBL-12HE-MFL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827048
REPORT IS A COMBINATION OF REPORTS P826145 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12HE-MFL-UNV-L840-CD-UPL18
Description: 12000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

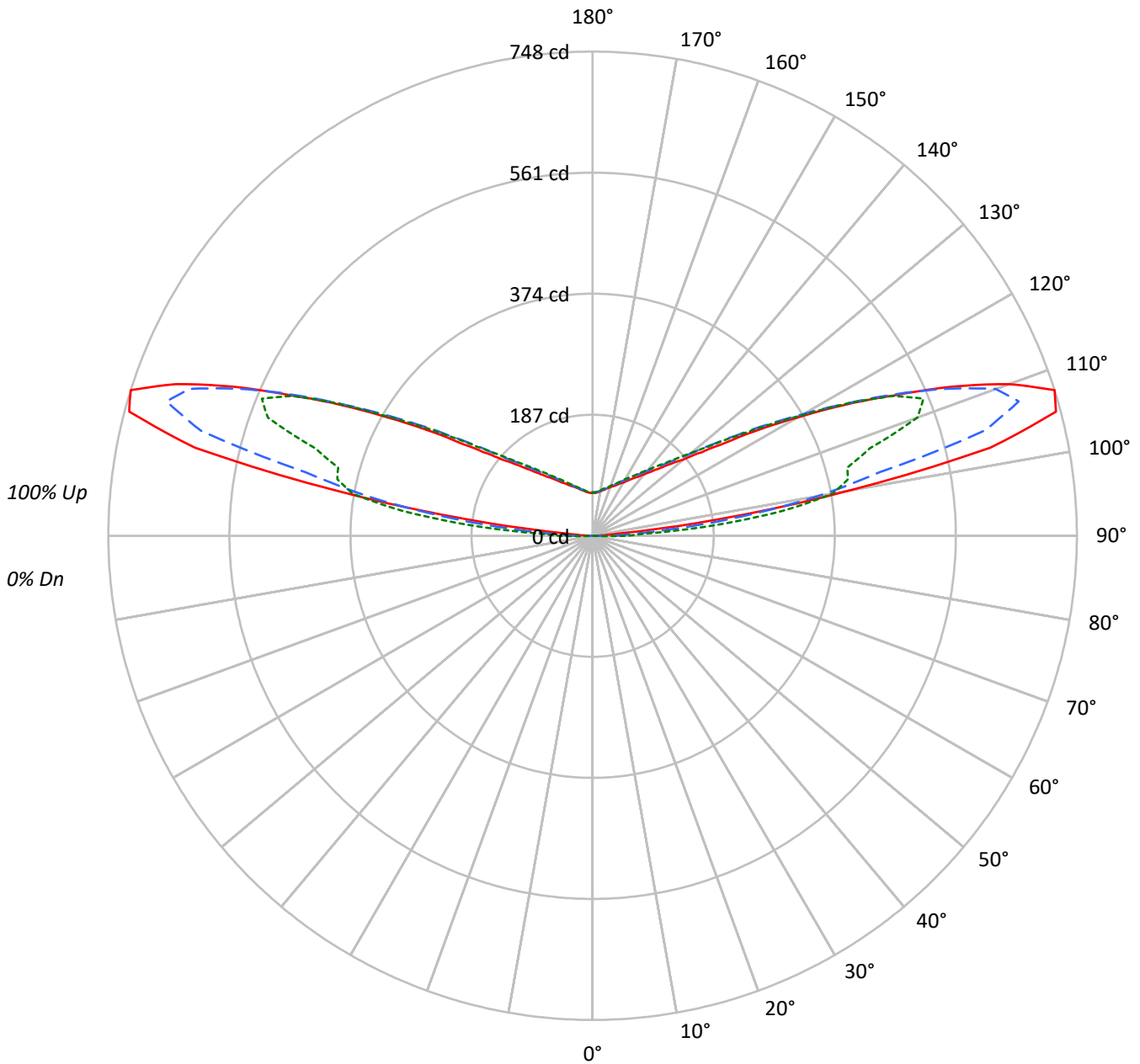
Lumens per Lamp: N/A
Luminaire Lumens: 1789.9 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Indirect

Input Watts (W): 12.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	9	9	9	9	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	31	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	2	2	2	2	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	4.5	0.3
90°-100°	171.2	9.6
100°-110°	594.6	33.2
110°-120°	510.9	28.5
120°-130°	245.3	13.7
130°-140°	122.6	6.8
140°-150°	71.2	4.0
150°-160°	41.5	2.3
160°-170°	21.5	1.2
170°-180°	6.6	0.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.5	0.3
90°-120°	1276.7	71.3
90°-150°	1715.8	95.9
90°-180°	1785.0	99.7
0°-180°	1789.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	4	25	34	45	50	3
95°	38	82	129	167	191	120
105°	741	734	626	441	407	703
115°	513	519	518	512	511	517
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0	0	0	0	0
2.5°	0	0	0	0	0
5°	0	0	0	0	0
7.5°	0	0	0	0	0
10°	0	0	0	0	0
12.5°	0	0	0	0	0
15°	0	0	0	0	0
17.5°	0	0	0	0	0
20°	0	0	0	0	0
22.5°	0	0	0	0	0
25°	0	0	0	0	0
27.5°	0	0	0	0	0
30°	0	0	0	0	0
32.5°	0	0	0	0	0
35°	0	0	0	0	0
37.5°	0	0	0	0	0
40°	0	0	0	0	0
42.5°	0	0	0	0	0
45°	0	0	0	0	0
47.5°	0	0	0	0	0
50°	0	0	0	0	0
52.5°	0	0	0	0	0
55°	0	0	0	0	0
57.5°	0	0	0	0	0
60°	0	0	0	0	0
62.5°	0	0	0	0	0
65°	0	0	0	0	0
67.5°	0	0	0	0	0
70°	0	0	0	0	0
72.5°	0	0	0	0	0
75°	0	0	0	0	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	4	25	34	45	50
92.5°	13	33	55	76	84
95°	38	82	129	167	191
97.5°	195	213	238	282	298
100°	402	422	354	371	377
102.5°	629	628	454	410	404
105°	741	734	626	441	407



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	602	606	594	578	553
115°	513	519	518	512	511
117.5°	437	440	442	440	441
120°	365	372	376	373	371
122.5°	305	314	319	316	314
125°	250	262	269	268	266
127.5°	212	221	230	229	227
130°	184	191	197	198	199
132.5°	165	168	174	175	177
135°	148	151	156	158	159
137.5°	135	138	142	144	145
140°	124	127	130	132	133
142.5°	115	118	121	122	123
145°	108	110	113	114	114
147.5°	101	103	105	107	107
150°	95	97	99	100	101
152.5°	91	92	94	95	95
155°	86	88	89	90	90
157.5°	83	84	85	86	86
160°	80	80	81	82	82
162.5°	77	77	78	79	79
165°	74	75	75	76	76
167.5°	72	72	73	73	74
170°	70	70	71	71	71
172.5°	68	69	69	69	69
175°	67	67	68	68	68
177.5°	66	67	67	67	67
180°	67	67	67	67	67



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	748	748	690	536	449
110°	685	693	663	603	534



(END OF REPORT)